

# Materials Discovery

## Programme details

### Taught Programmes:

// Advanced Materials Science MSc

// Advanced Materials Science (Energy Storage) MSc

### Research Programme

The department welcomes applications from prospective research students, both from the UK and from overseas. For informal recruitment queries, or enquiries about self-funded PhD studentships, please contact [enquiries.materialsdiscovery@ucl.ac.uk](mailto:enquiries.materialsdiscovery@ucl.ac.uk)

### Careers

Studying at IMD will allow you to develop a range of core skills, including: Analysis of academic and commercial areas, effective and efficient critical data analysis, productive and collaborative teamwork and effective communication skills. Students will also develop managerial skills and entrepreneurship by working with academic experts and commercial leaders, commercially relevant product development and project management, problem solving, creative thinking and an understanding of the innovation process.


### Further information

Please direct enquiries to the Admissions tutor, more information can also be found on the UCL IMD website.

MSc programmes and PhD study: [enquiries.materialsdiscovery@ucl.ac.uk](mailto:enquiries.materialsdiscovery@ucl.ac.uk)

 [www.ucl.ac.uk/institute-for-materials-discovery](http://www.ucl.ac.uk/institute-for-materials-discovery)

 [@UCL\\_IMD](https://twitter.com/UCL_IMD)

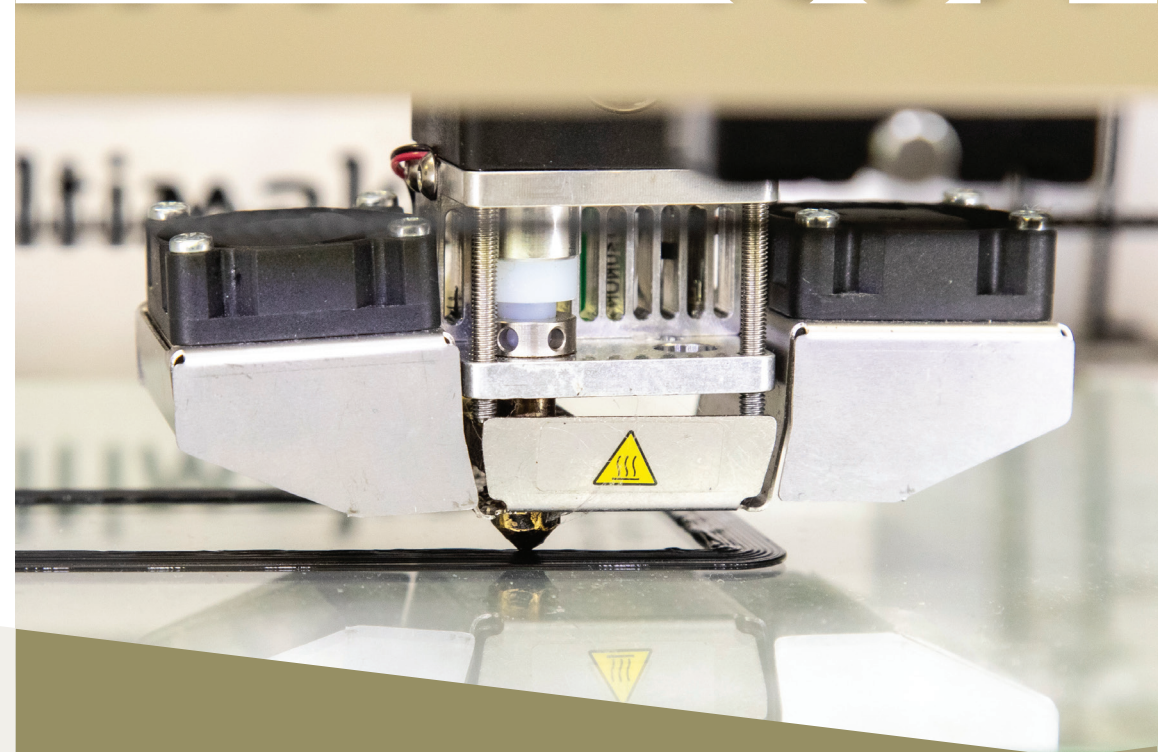
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FACULTY OF MATHEMATICAL & PHYSICAL SCIENCES  
INSTITUTE FOR MATERIALS DISCOVERY



# UCL

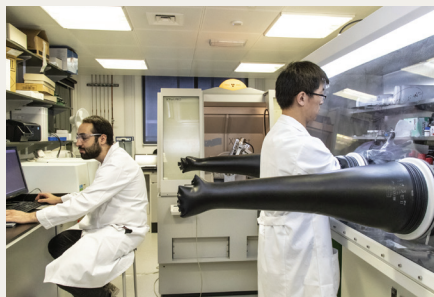


# Institute for Materials Discovery at UCL

**Material science underpins the modern world, from smart phones to satellites, solar cells to dialysis, and is at the cutting edge of innovation in areas such as transport, health care, electric vehicles and renewable energy. The Institute for Materials Discovery (IMD), led by its founder and director Professor Kwang-Leong Choy is at the forefront of the design and development of new, sustainable materials to tackle pressing global challenges. It brings together leading experts from several disciplines, and links materials research at UCL which is scattered across departments including Chemistry, Engineering, Biology, Medicine, and Physics.**

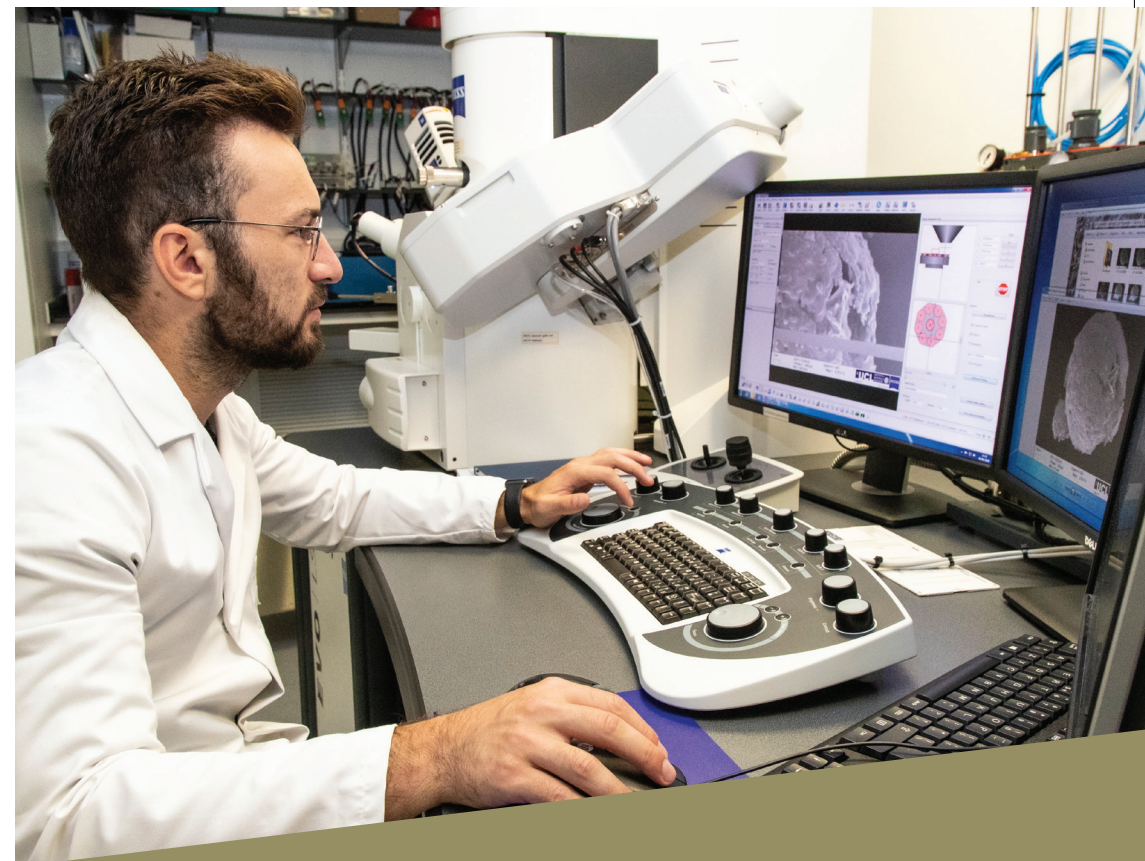
### Studying Materials Science at UCL

The MSc in Advanced Materials Science run by the IMD will train you in cutting edge materials discovery, manufacturing and characterisation. Delivered by world leading researchers, you will gain practical experience in working with materials for applications across healthcare, manufacturing, renewable energy, transport, optoelectronics and consumer products. The course is an ideal fit for students from a wide range of backgrounds, including Material Science, Chemistry, Mechanical Engineering, Chemical Engineering and Biology. The IMD also hosts a number of PhD students working on key issues across material science, such as advanced materials for energy storage, coatings for biomedical, structural and functional applications.



### How we teach

Advanced Materials Science MSc relates scientific theories to research and applications of advanced materials, encourages innovation and creative thinking, and contextualises scientific innovation within the global market. The programme aims to deliver innovative teaching; from the group design projects where students are challenged to design the next advanced material, to the module 'Mastering Entrepreneurship', where students learn how to apply research in the commercial world. Students on this interdisciplinary programme benefit from UCL's emphasis on research-based learning and teaching and research input from departments across UCL in mathematical and physical sciences, and in engineering. Teaching is delivered by lectures, interactive tutorials, case discussions, and modelling projects. Assessment is by a combination of ongoing coursework, presentations, a group project and/or a written examination, a dissertation and a viva.



***"I thoroughly enjoyed every bit of my year at the Institute. The combination of lab work and specialised courses exposed me to new scientific domains and interactions with some of the most prestigious researchers in the materials science world."***

**Alexandre Zoetelief Tromp**  
MSc Advanced Materials Science 2017